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Washington, D.C. 20231

APPLICATION NO.	FILING DATE	FIRST NAMED IN	VENTOR		ATTORNEY DOCKET NO.
08/653,294	ı 05/24/96	CLAYBERGER		С	286002020023
		19400 (44.64	\neg		EXAMINER ·
HM22/1101 KATE H MURASHIGE				DIBRINO,M	
MORRISON 8 2000 PENNS	<pre>FOERSTER SYLVANIA AVE</pre>	ENUE NW		ART UNIT	PAPER NUMBER
	DC 20006-18			1644	φ
				DATE MAILED	: ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks



UNITED TES DEPARTMENT OF COMMERCE Patent and Trademark Offic
COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231

SERIAL NUMBER	FILING DATE	FIRST NAMED APPLICANT	ATTORNEY DOCKET NO.	
			EXAMINER	
		ART UNIT	PAPER NUMBER	
	·	DATE MAII FD:		

Please find below a communication from the EXAMINER in charge of this application

This application contains sequence disclosures that are encompassed by the definitions for nucleotide and/or amino acid sequences set forth in 37 CFR 1.821(a)(1) and (a)(2). A computer readable form (CRF) of the sequence listing was submitted. However, the CRF could not be processed by the Scientific and Technical Information Center (STIC) for the reason(s) set forth on the attached CRF Diskette Problem Report.

Applicant is given ONE MONTH, or THIRTY DAYS, whichever is longer, from the mailing date of this letter within which to comply with the sequence rules, 37 CFR 1.821 - 1.825. Failure to comply with these requirements will result in ABANDONMENT of the application under 37 CFR 1.821(g). Extensions of time may be obtained by filing a petition accompanied by the extension fee under the provisions of 37 CFR 1.136(a). In no case may an applicant extend the period for reply beyond the SIX MONTH statutory period. Direct the reply to the undersigned. Applicant is requested to return a copy of the attached CRF Diskette Problem Report with the reply.

Any inquiry concerning this communication should be directed to Examiner Ron Schwadron, Ph.D., Art Unit 1644, whose telephone number is (703) 308-4680. Any inquiry of a general nature or relating to the status of this application should be directed to the Technology Center receptionist whose telephone number is (703) 308-0196.

RONALD B. SCHWADRON PRIMARY EXAMINER GROUP 1800 (LC

Ron Schwadron, Ph.D. Art Unit 1644

Application No.: 08653294

NOTICE TO COMPLY WITH REQUIREMENTS FOR PATENT APPLICATIONS CONTAINING NUCLEOTIDE SEQUENCE AND/OR AMINO ACID SEQUENCE DISCLOSURES

The nucleotide and/or amino acid sequence disclosure contained in this application does not comply with the requirements for such a disclosure as set forth in 37 C.F.R. 1.821 - 1.825 for the following reason(s):

Ä	 This application clearly fails to comply with the requirements of 37 C.F.R. 1.821-1.825. Applicant's attention is directed to these regulations, published at 1114 OG 29, May 15, 1990 and at 55 FR 18230, May 1, 1990.
	2. This application does not contain, as a separate part of the disclosure on paper copy, a "Sequence Listing" as required by 37 C.F.R. 1.821(c).
	3. A copy of the "Sequence Listing" in computer readable form has not been submitted as required by 37 C.F.R. 1.821(e).
Ø	4. A copy of the "Sequence Listing" in computer readable form has been submitted. However, the content of the computer readable form does not comply with the requirements of 37 C.F.R. 1.822 and/or 1.823, as indicated on the attached copy of the marked -up "Raw Sequence Listing."
	5. The computer readable form that has been filed with this application has been found to be damaged and/or unreadable as indicated on the attached CRF Diskette Problem Report. A Substitute computer readable form must be submitted as required by 37 C.F.R. 1.825(d).
	6. The paper copy of the "Sequence Listing" is not the same as the computer readable from of the "Sequence Listing" as required by 37 C.F.R. 1.821(e).
	7. Other:
Ąр	plicant Must Provide:
	An initial or substitute computer readable form (CRF) copy of the "Sequence Listing".
Image: Control of the	An <u>initial</u> or substitute paper copy of the "Sequence Listing", as well as an amendment directing its entry into the specification.
Ø	A statement that the content of the paper and computer readable copies are the same and, where applicable, include no new matter, as required by 37 C.F.R. 1.821(e) or 1.821(f) or 1.821(g) or 1.825(b) or 1.825(d).
For	questions regarding compliance to these requirements, please contact:
For	Rules Interpretation, call (703) 308-4216 CRF Submission Help, call (703) 308-4212 PatentIn software help, call (703) 308-6856

PLEASE RETURN A COPY OF THIS NOTICE WITH YOUR RESPONSE

RECEIVED

JUL 1 1 2001

Raw Sequence Listing Error Summary

TECH CENTER 1600/2900

ERROR	DETECTED	SUGGESTED CORRECTION	SERIAL NUMBER: <u>08/653,</u> 294B
ATTN: NE	EW RULES CASES:	PLEASE DISREGARD ENGLISH "ALPHA" HEA	DERS, WHICH WERE INSERTED BY PTO SOFTWAR
	Wrapped Nucleics Wrapped Aminos		l" down to the next line. This may occur if your file it. Please adjust your right margin to .3; this will
2Ir	nvalid Line Length	The rules require that a line not exceed 72 characteristics	eters in length. This includes white spaces.
	Aisaligned Amino Numbering	The numbering under each 5th amino acid is missue space characters, instead.	ligned. Do not use tab codes between numbers,
4N	lon-ASCII	The submitted file was not saved in ASCII(DOS) ensure your subsequent submission is saved in	text, as required by the Sequence Rules. Please ASCII text.
5V	ariable Length	each n or Xaa can only represent a single resid	g more than one residue. Per Sequence Rules, lue. Please present the maxImum number of each <220>-<223> section that some may be missing.
	atentin 2.0 "bug"	sequences(s) . Normally, PatentIn	220>-<223> section to be missing from amino acid would automatically generate this section from the nanually copy the relevant <220>-<223> section to es to the mandatory <220>-<223> sections for
	,	(2) INFORMATION FOR SEQ ID NO:X: (insert	Do not insert any subheadings under this heading)
		Please also adjust the "(ii) NUMBER OF SEQUI	ENCES:" response to include the skipped sequences.
	kipped Sequences NEW RULES)	Sequence(s) missing. If intentional, pleated to sequence id number <400> sequence id number 000	ase insert the following lines for each skipped sequence
	TEW RULES)	Use of n's and/or Xaa's have been detected in the Per 1.823 of Sequence Rules, use of <220>-<223 In <220> to <223> section, please explain location	Sequence Listing. > is MANDATORY if n's or Xaa's are present. on of n or Xaa, and which residue n or Xaa represents.
	nvalid <213> esponse	Per 1.823 of Sequence Rules, the only valid <213 scientific name (Genus/species). <220>-<223> s is Artificial Sequence	3> responses are: Unknown, Artificial Sequence, or ection is required when <213> response is Unknown or
1U	lse of <220>	Use of <220> to <223> is MANDATORY if <21 "Unknown." Please explain source of genetic ma	re" and associated numeric identifiers and responses. 3> "Organism" response is "Artificial Sequence" or a section. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
	"bug"	Please do not use "Copy to Disk" function of Pateresulting in missing mandatory numeric identifier listing). Instead, please use "File Manager" or an	

AMC - Biotechnology Systems Branch - 06/04/2001

RECEIVED*

JUL 1 1 2001

RAW SEQUENCE LISTING

PATENT APPLICATION: US/08/653,294B

DATE: 06/20/740H CENTER 1600/2900

Input Set : D:\28600-20200.txt

Output Set: N:\CRF3\06202001\H653294B.raw

Does Not Comply Corrected Diskette Needed

3 <110> APPLICANT: Stanford University Clayberger, Carol Krensky, Alan Buelow, Roland 8 <120> TITLE OF INVENTION: IMMUNOMODULATING DIMERS 11 <130> FILE REFERENCE: 28600-20200.23 13 <140> CURRENT APPLICATION NUMBER: 08/653,294B 14 <141> CURRENT FILING DATE: 1996-05-24 16 <150> PRIOR APPLICATION NUMBER: US 08/222,851 17 <151> PRIOR FILING DATE: 1994-04-05 19 <150> PRIOR APPLICATION NUMBER: US 07/844,716 20 <151> PRIOR FILING DATE: 1992-03-02 22 <150> PRIOR APPLICATION NUMBER: US 07/755,584 23 <151> PRIOR FILING DATE: 1991-09-03 25 <150> PRIOR APPLICATION NUMBER: US 07/672,147 26 <151> PRIOR FILING DATE: 1991-03-19 28 <150> PRIOR APPLICATION NUMBER: US 07/561,246 29 <151> PRIOR FILING DATE: 1990-07-30 31 <150> PRIOR APPLICATION NUMBER: US 07/008,846 32 <151> PRIOR FILING DATE: 1987-01-30 34 <160> NUMBER OF SEQ ID NOS: 42 36 <170> SOFTWARE: FastSEQ for Windows Version 4.0

Leese Corsult Seguera Rubs, Ja valid Jourat

ERRORED SEQUENCES

38 <210> SEQ ID NO: 1 Reword the statement: Xaa at location 2 D 39 <211> LENGTH: 10 40 <212> TYPE: PRT 41 <213> ORGANISM: Human 43 <220> FEATURE: Ver 1823 of Sequera Rules, 44 <221> NAME/KEY: VARIANT 45 <222> LOCATION: (1)...(10) the majerien runker of live in 62237 regione is 46 <223> OTHER INFORMATION: Xaa76 = E or V; 47 Xaa77 = D,S or N;Xaa79 48 \neq R or G; $Xaa|80 \neq I \text{ or } N;$ 49 Li uset a 22207 after the Little bie and west 62237 at beginning of 5th/me W--> 50 Xaa81 is a hydrophobic or small amino acid; W--> 51 Xaa82 = R or L; Xaa83 = G or R; W--> 52 Xaq84/= is a hydrophobic or small amino acid. 56 Arg Xaa (6) Xaa (7) Leu Xaa (79) Xaa (80) Xaa (81) Xaa (82) Xaa (83) Xaa (84) & world - do hot issent runtur next to E--> 57 1 59 <210> SEQ ID NO: Xaa's; juit show musalgred and 60 <211> LENGTH: 10 61 <212> TYPE: PRT Surmay Sheet

DATE: 06/20/2001

TIME: 11:11:44

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RECEIVED
                       Input Set : D:\28600-20200.txt
                       Output Set: N:\CRF3\06202001\H653294B.raw
                                                                                        JUL 1 1 2001
     62 <213> ORGANISM: Human
                                                                                   TECH CENTER 1600/2900
     64 <220> FEATURE:
     65 <221> NAME/KEY: VARIANT
     66 <222> LOCATION: (1)...(10)
     67 <223> OTHER INFORMATION: Xa \neq 76 = E or V;
               Xad[77] = D,S or N;
                                                                      same prins
               Xaa79 = R \text{ or } G;
     69
     70
               Xaa80 = I or N;
               Xaa81 is a hydrophobic or small amino acid;
W--> 71
               Xaa82 = R or L;
Xaa83 = G or R;
W--> 72
W--> 73
               Xaa 84/= is a hydrophobic or small amino acid.
W--> 74
76 <4002 SEQUENCE: 2
E--> 77 Xaa84 Xaa83 Xaa82 Xaa81 Xa80 Xaa9 Leu Xaa77 Xaa66 Arg
F--> 78 1 5 10 Mirelyn 105.
     80 <210> SEQ ID NO:
     81 <211> LENGTH: (10)
     82 <212> TYPE: PRT
     83 <213> ORGANISM: Human
     85 <220> FEATURE:
                                                               same ever
     86 <221> NAME/KEY: VARIANT
     87 <222> LOCATION: (1)...(10)
     88 <223> OTHER INFORMATION: Xaa1 = Any Amino Acid;
               Xaa2 = N or I; or any amino acid of at least five carbon atoms;
               Xaa3 = I or hydrophobic or small amino acid;
     90
     91
               Xaa4 = R or any aliphatic amino acid of at least five carbon atoms;
W--> 92
               Xaa5 = G or R or any aliphatic amino acid;
               Xaa6 = any amino acid, hydrophobic or small.
     95 <400> SEQUENCE: 3
     96 Arg Glu Xaa(1) Leu Arg Xa(2) Xaa(3) Xaa(4) Xaa(5)
E--> 97 1
     433 <210> SEQ ID NO: 38
     434 <211> LENGTH: 10
     435 <212> TYPE: PRT
     436 <213> ORGANISM: Human
     438 <220> FEATURE:
     439 <221> NAME/KEY: VARIANT
     440 <222> LOCATION: (1)...(10)
     441 <223> OTHER INFORMATION: Xaa77 = D,S or N;
                                                                  same enn
     442
                Xaa80 = I \text{ or } N;
     443
                Xaa81 = A \text{ or } L;
     444
                Xaa82 = R \text{ or } L;
               Xaa83 = G \text{ or } R.
W-->445
447 <400> SEQUENCE: 30
E--> 448 Arg Glu Xaa77 Leu Arg Xaa80 Xaa81 Xaa82 Xaa83 Tyr.
E--> 449 1 5 10 misebyrd hos,
     447 <400> SEQUENCE: 38
     451 <210> SEQ ID NO:
     452 <211> LENGTH: 10
     453 <212> TYPE: PRT
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RAW SEQUENCE LISTING

PATENT APPLICATION: US/08/653,294B

RAW SEQUENCE LISTING

PATENT APPLICATION: US/08/653,294B

DATE: 06/20/2001 TIME: 11:11:44

Input Set : D:\28600-20200.txt

Output Set: N:\CRF3\06202001\H653294B.raw

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454 <213> ORGANISM: Human
      456 <220> FEATURE:
      457 <221> NAME/KEY: VARIANT
      458 <222> LOCATION: (1)...(10)
      459 <223> OTHER INFORMATION: Xaa77 = D,S or N;
      460
                  Xaa80 = I \text{ or } N;
      461
                  Xaa81 = A \text{ or } L;
      462
                  Xaa82 = R \text{ or } L;
                  Xaa83 = G \text{ or } R.
  --> 463
465 <400> SEQUENCE 39
E--> 466 Tyr Xaa(83) Xaa(82) Xaa(81) Xaa(80)
                                              Arg Leu Xaa77
                                                               Glu Arg ,
E--> 467 1
```

VERIFICATION SUMMARY

DATE: 06/20/2001 94B TIME: 11:11:45

PATENT APPLICATION: US/08/653,294B

Input Set : D:\28600-20200.txt

Output Set: N:\CRF3\06202001\H653294B.raw

L:50 M:259 W: Allowed number of lines exceeded, <223> Other Information: L:51 M:259 W: Allowed number of lines exceeded, <223> Other Information: L:52 M:259 W: Allowed number of lines exceeded, <223> Other Information: L:53 M:259 W: Allowed number of lines exceeded, <223> Other Information: L:57 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:1 L:57 M:252 E: No. of Seq. differs, <211>LENGTH:Input:10 Found:0 SEQ:1 L:71 M:259 W: Allowed number of lines exceeded, <223> Other Information: L:72 M:259 W: Allowed number of lines exceeded, <223> Other Information: L:73 M:259 W: Allowed number of lines exceeded, <223> Other Information: L:74 M:259 W: Allowed number of lines exceeded, <223> Other Information: L:77 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 L:77 M:333 E: Wrong sequence grouping, Amino acids not in groups! L:77 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:8 L:78 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:2 L:92 M:259 W: Allowed number of lines exceeded, <223> Other Information: L:93 M:259 W: Allowed number of lines exceeded, <223> Other Information: L:97 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:3 L:97 M:252 E: No. of Seq. differs, <211>LENGTH:Input:10 Found:0 SEQ:3 L:245 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 L:259 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 L:445 M:259 W: Allowed number of lines exceeded, <223> Other Information: L:448 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38 L:448 M:333 E: Wrong sequence grouping, Amino acids not in groups! L:448 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:5 L:449 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:38 $L:463\ M:259\ W:$ Allowed number of lines exceeded, <223> Other Information: L:466 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39 L:466 M:333 E: Wrong sequence grouping, Amino acids not in groups! L:466 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:5 L:467 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:39